

SECRET

18 June 1964

*18 June 64*  
*Phy*  
*22 June*

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report, 9 June 1964, [redacted]  
[redacted] Model 552 Point Transfer Device  
and associated Stereo Viewers.

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ATTENDEES:

[redacted]

1. [redacted] is having problems with the laser marking system. The lasers are currently at vendor's for modification. The laser has not been able to retain the required P.R.F. at an adequate power setting. As a result, the requested laser marking samples were not available. The modified laser should be received this week.

2. The contractor is still searching for an acceptable transparent material for construction of the vacuum manifolds. Detailed drawings were in the process of being finished and were available for our inspection.

3. The microgroove plates have not been perfected. Plates with the required depth of groove have been received from the vendor; however, these plates do not have the required degree of polish and are not acceptable optically.

4. [redacted] was instructed to provide two momentary contact switches in place of the purposed rocker switch now used to fire the laser.

5. The magnification range settings shown on the control console will be for the system magnification with one eyepiece only. This eyepiece is to be chosen at a later date. Two additional eyepiece sets are to be provided by [redacted] consequently, a slight mental conversion will be required.

Declass Review by  
NIMA/DOD

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25X1 6. [REDACTED] the project engineer, suggested the use of parenthesis as the flagging marks. The number 12 position on the disk switch could be used to add or remove this item. The "blank" position provides only the point mark -- no number or flag.

7. Changes have been made to improve the eye box "Z" motion. These changes include the replacing of helical gears with spur gears and the introducing of additional bearings on the drive shafts.

25X1 8. We were able to test out the joystick on the Model 571. This is the same system as that used on our 552 except that ours is a dual system connected by pantograph linkages and therefore would have a different feel. We were not impressed with the preloading resistance -- it varied considerably depending upon the vectorial position of the joystick. [REDACTED] was informed that this would not be acceptable for our equipment.

25X1 9. [REDACTED] is having difficulties obtaining ball screws from [REDACTED] which meet the promised specifications. [REDACTED] is working on this problem. This could prove to be a real problem from the men-  
25X1 suration standpoint.

25X1 10. [REDACTED] claims that the field lens for low magnifications illumination has been breadboarded with acceptable results. I still have reservations concerning the over-all system resolution with this element in the optical path.

11. The following decisions were made concerning the read-out system for the 552 P.T.D..

a. The Nixie tube read-out banks will be located on the instrument's bridge.

b. The synchronizer package will be placed in the auxiliary cabinet.

25X1 c. The main [REDACTED] read-out control panel will be in the form of a small movable console located to the right of the joystick. The four preset and four reset switches will be arranged in a row on the front and at the top edge of this console. There is no space in the main control console for these elements. The movable console will permit the operator to arrange the unit to his individual preference.

25X1 12. [REDACTED] hopes to make delivery of the Chip Comparator sometime on the week of June 15.

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[REDACTED]

Development Branch, P&DS

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